

CLAIMS

What is claimed is:

- 5 1. A light-duty dumping mechanism for use on a pick-up truck chassis, comprising:
- a powder-molded pick-up truck box bed for carrying a load, said truck box bed having a sandwiched plastic configuration formed from melted particulate material in a heated mold, said powder-molded pick-up truck box bed including an inner and an outer
- 10 skin;
- at least one stanchion-supporting insert encapsulated within the sandwiched plastic configuration pick-up truck box bed;
- a lifting mechanism attached to the at least one stanchion-supporting insert encapsulated within the sandwiched plastic configuration pick-up truck box bed, said
- 15 lifting mechanism also extending to and being attached to the chassis of the pick-up truck; and
- a pivot point between and connecting the pick-up truck chassis and the sandwiched plastic configuration pick-up truck box bed, whereby said lifting mechanism lifts against the stanchion-supporting insert and tilts the pick-up truck box bed against the pivot
- 20 point so that the pick-up truck bed is able to dump its contents.
2. The mechanism of claim 1, further comprising a reinforcing metallic mesh sheet formed to a likeness of the pick-up truck box bed, said reinforcing mesh being formed into the foamed core center of the sandwiched configuration to provide a higher
- 25 modulus of strength for the pick-up truck box bed.
3. The mechanism of claim 1, further comprising a tailgate capable of extending to the ground for easier loading.
- 30 4. The mechanism of claim 1, wherein the stanchion-supporting insert includes a metal U-shaped channel adapted to be able to lift the entire truck box bed with its load to dump its contents.

5. The mechanism of claim 1, wherein the powder-molded pick-up truck box bed made from melted particulate material is formed of polyurethane plastic powder particulate material.

6. A light-duty dumping mechanism for use on a pick-up truck chassis, comprising:

a powder-molded pick-up truck box bed for carrying a load having a sandwiched plastic configuration formed from melted particulate material in a heated mold, said powder-molded pick-up truck box bed including an inner and an outer skin with a foamed core center extending therebetween;

at least one stanchion-supporting insert encapsulated within the foamed core center of the sandwiched plastic configuration pick-up truck box bed;

a lifting mechanism attached to the at least one stanchion-supporting insert encapsulated within the sandwiched plastic configuration pick-up truck box bed, said lifting mechanism also extending to and attached to the chassis of the pick-up truck; and

a pivot point between and connecting the pick-up truck chassis and the double skinned sandwiched plastic configuration pick-up truck box bed, whereby said lifting mechanism lifts against the stanchion-supporting insert and tilts the pick-up truck box bed against the pivot point so that the pick-up truck bed is able to dump its contents.

7. The mechanism of claim 6, further comprising a reinforcing metallic mesh sheet formed to a likeness of the pick-up truck box bed, said reinforcing mesh being formed into the foamed core center of the sandwiched configuration to provide a higher modulus of strength for the pick-up truck box bed.

8. The mechanism of claim 6, further comprising a tailgate capable of extending to the ground for easier loading.

9. The mechanism of claim 6, wherein the stanchion-supporting insert includes a metal U-shaped channel adapted to be able to lift the entire truck box bed with its load to dump its contents.

10. The mechanism of claim 6, wherein the powder-molded pick-up truck box bed made from melted particulate material is formed of polyurethane plastic powder particulate material.